

Title (en)

METHOD AND DEVICE FOR POWER SYSTEM PROTECTION

Title (de)

VERFAHREN UND EINRICHTUNG ZUM SCHUTZ EINES STROMVERSORGUNGSSYSTEMS

Title (fr)

PROCEDE ET DISPOSITIF DE PROTECTION D'UN SYSTEME GENERATEUR

Publication

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Application

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Abstract (en)

[origin: WO0180393A1] The present invention relates to a method for protecting a zone in a power system, which zone comprises a number of transmission lines connected to power sources and a number of transmission lines connected to a number of loads where the power sources and the loads are arranged outside the zone, wherein the method comprises the steps of: continuously measuring all the incoming currents (I_{in}) to the zone, continuously measuring all the outgoing currents (I_{out}) from the zone, and continuously calculating the differential current (I_d) according to $I_d = I_{in} - I_{out}$. The method is characterised in continuously integrating I_{in} , I_{out} and I_d according to Formula (I), where T is the fundamental frequency cycle, whereby changes of the continuously integrated values $I < I_N?$, $I > I_{OUT}?$ and $I > I_D?$ constitute indications of whether faults on the power system occur within or outside the zone. The present invention also relates to a device and computer program product for performing the method.

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